



NN NN MM MM LL DDDDDDDDD IIIIIII SSSSSSSSS CCCCCCCCC  
 NN NN MM MM LL DDDDDDDDD IIIIIII SSSSSSSSS CCCCCCCCC  
 NN NN MMMMM MMMMM LL DD DD II SS CC  
 NN NN MMMMM MMMMM LL DD DD II SS CC  
 NNNN NN MM MM MM LL DD DD II SS CC  
 NNNN NN MM MM MM LL DD DD II SS CC  
 NN NN MM MM LL DD DD II SS CC  
 NN NN MM MM LL DD DD II SS CC  
 NN NNNN MM MM LL DD DD II SS CC  
 NN NNNN MM MM LL DD DD II SS CC  
 NN NN MM MM LL DD DD II SS CC  
 NN NN MM MM LL DD DD II SS CC  
 NN NN MM MM LLLLLLLLLL DDDDDDDDD IIIIIII SSSSSSSSS CCCCCCCCC  
 NN NN MM MM LLLLLLLLLL DDDDDDDDD IIIIIII SSSSSSSSS CCCCCCCCC

A 10x10 grid of letters. The letters are arranged in a pattern: the first four columns (from left to right) are entirely composed of the letter 'L'. The fifth column contains the letter 'I' at the top and bottom, with 'L's in the middle. The sixth column contains the letter 'I' at the top and bottom, with 'L's in the middle. The seventh column contains the letter 'I' at the top and bottom, with 'L's in the middle. The eighth column contains the letter 'I' at the top and bottom, with 'L's in the middle. The ninth column contains the letter 'I' at the top and bottom, with 'L's in the middle. The tenth column contains the letter 'S' at the top and bottom, with 'L's in the middle. The letters are in a bold, black, sans-serif font.

```
1 0001 0 XTITLE 'NML Disconnect parameter module'
2 0002 0 MODULE NML$DISCONNECT (
3 0003 0   LANGUAGE (BLISS32),
4 0004 0   ADDRESSING-MODE (NONEXTERNAL=GENERAL),
5 0005 0   ADDRESSING-MODE (EXTERNAL=GENERAL),
6 0006 0   IDENT = 'V04-000'
7 0007 0   )
8 0008 1 BEGIN
9 0009 1
10 0010 1 ****
11 0011 1 *
12 0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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29 0029 1 *
30 0030 1 *
31 0031 1 ****
32 0032 1 !
33 0033 1 !
34 0034 1 ++
35 0035 1 FACILITY: DECnet-VAX V2.0 Network Management Listener
36 0036 1
37 0037 1 ABSTRACT:
38 0038 1
39 0039 1 These routines process all NCP DISCONNECT commands.
40 0040 1
41 0041 1 ENVIRONMENT: VAX/VMS Operating System
42 0042 1
43 0043 1 AUTHOR: Kathy Perko
44 0044 1
45 0045 1 CREATION DATE: 6-Sept-1981
46 0046 1
47 0047 1 MODIFIED BY:
48 0048 1
49 0049 1 V03-002 MKP0004 Kathy Perko 1-March-1983
50 0050 1 Fix DISC LINKS so it returns an EOF message if no
51 0051 1 links were disconnected.
52 0052 1
53 0053 1 V03-001 MKP0003 Kathy Perko 7-May-1982
54 0054 1 Add double search key to DISCONNECT KNOWN LINKS WITH
55 0055 1 NODE <node name>.
56 0056 1
57 0057 1 V02-003 MKP0002 Kathy Perko 25-Oct-1981
```

NML\$DISCONNECT NML Disconnect parameter module  
V04-000

B 8  
16-Sep-1984 00:14:10  
14-Sep-1984 12:50:08  
VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 2  
(1)

58 0058 1 | Change single link disconnect so no node name  
59 0059 1 | is required in the NICE command.  
60 0060 1 |  
61 0061 1 | V02-002 MKP0001 Kathy Perko 18-Sept-1981  
62 0062 1 | Fix NML\$DISCKNOWN so that if a link goes away  
63 0063 1 | between the read and the disconnect, no error  
64 0064 1 | is returned to NCP.  
65 0065 1 |  
66 0066 1 !--  
67 0067 1 |

NML  
V04

```
69      0068 1 %SBTTL 'Declarations'  
70      0069 1  
71      0070 1 |  
72      0071 1 | TABLE OF CONTENTS:  
73      0072 1 |  
74      0073 1 |  
75      0074 1 FORWARD ROUTINE  
76      0075 1      NML$DISCKNOWN      : NOVALUE,  
77      0076 1      NML$GETLINKLIST,  
78      0077 1      NML$DISCONNECT      : NOVALUE;  
79      0078 1 |  
80      0079 1 |  
81      0080 1 | INCLUDE FILES:  
82      0081 1 |  
83      0082 1 |  
84      0083 1 LIBRARY 'LIB$:NMLLIB.L32';  
85      0084 1 LIBRARY 'SHRLIB$:NMALIBRY.L32';  
86      0085 1 LIBRARY 'SHRLIB$:NET.L32';  
87      0086 1 LIBRARY 'SYSS$LIBRARY:STARLET.L32';  
88      0087 1 |  
89      0088 1 |  
90      0089 1 | EXTERNAL REFERENCES:  
91      0090 1 |  
92      0091 1 |  
93      0092 1 | SNML_EXTDEF:  
94      0093 1 |  
95      0094 1 EXTERNAL ROUTINE  
96      0095 1      NML$BLDP2,  
97      0096 1      NML$BLD REPLY,  
98      0097 1      NML$GETEXEADR,  
99      0098 1      NML$NETQIO,  
100     0099 1      NML$SEND,  
101     0100 1      NML$ERROR_1;  
102     0101 1 |
```

NML\$DISCONNECT NML Disconnect parameter module  
V04-000 Declarations

D 8  
16-Sep-1984 00:14:10  
14-Sep-1984 12:50:08 VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 4  
\*\* (3)

```
: 104      0102 1
: 105      0103 1 OWN
: 106      0104 1      NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLEN, BYTE];
: 107      0105 1      NML$AB_ENTITY_BUF : BBLOCK [20];
: 108      0106 1
: 109      0107 1 BIND
: 110      0108 1      NML$Q_P2BFDSC = UPLIT (NML$K_P2BUFLEN, NML$T_P2BUFFER) : DESCRIPTOR;
: 111      0109 1
: 112      0110 1
```

```

114 0111 1 %SBTTL 'NML$DISCKNOWN Disconnect known links'
115 0112 1 GLOBAL ROUTINE NML$DISCKNOWN (ENTITY, NODE_PST, NODE_LEN, NODE_ADR) : NOVALUE =
116 0113 1
117 0114 1 ++
118 0115 1 | FUNCTIONAL DESCRIPTION:
119 0116 1 | This routine disconnects all links with all nodes or all links
120 0117 1 | with a specified node.
121 0118 1 |
122 0119 1 |
123 0120 1 | FORMAT PARAMETERS:
124 0121 1 | ENTITY Internal NML entity code (NMLSC_LINKS)
125 0122 1 | NODE_PST Parameter Semantic Table (PST) entry of node
126 0123 1 | (name or address) from which to disconnect links.
127 0124 1 | NODE_LEN Length of disconnect node ID.
128 0125 1 | NODE_ADR Address of disconnect node ID.
129 0126 1 |---
130 0127 1 |
131 0128 2 BEGIN
132 0129 2 |
133 0130 2 LOCAL
134 0131 2 | NFB : REF BBLOCK,
135 0132 2 | P2DSC : DESCRIPTOR,
136 0133 2 | STATUS,
137 0134 2 | PTR,
138 0135 2 | STRFLG,
139 0136 2 | LINK_CNT. | Count of links returned by NETACP in
140 0137 2 | | P4 buffer.
141 0138 2 | STRDSC : DESCRIPTOR, | Descriptor of link for NICE response msg.
142 0139 2 | MSGSIZE; | Length of response message.
143 0140 2 |
144 0141 2 |
145 0142 2 | NFB to disconnect a link.
146 0143 2 |
147 P 0144 2 $NFBDSC (DISC_LINK NFBDESC, DELETE, , LLI
148 P 0145 2 ,LN, ! Search key 1 = Link number, oper1 = eql
149 P 0146 2 ,NFB$C_WILDCARD, ! Search key 2 = wildcard, oper2 = neq
150 0147 2 ;
151 0148 2 |
152 0149 2 OWN
153 0150 2 | NMLPID,
154 0151 2 | GETLIST : BBLOCK [12] ! $GETJPI list to get NML's PID.
155 0152 2 | INITIAL ( WORD (4, ! Buffer length
156 0153 2 | | JPIS PID), ! Request PID
157 0154 2 | LONG (NMLPID, ! Address to receive PID
158 0155 2 | | 0), ! Don't need length.
159 0156 2 | IOSB : $IOSB;
160 0157 2 |
161 0158 2 |
162 0159 2 | Get PID for NML. If NML is not running in the local node, it is
163 0160 2 | talking to NCP via a logical link. Therefore, don't disconnect
164 0161 2 | that link. Use the PID to tell which link is NML's link to NCP.
165 0162 2 |
166 P 0163 2 STATUS = $GETJPI (ITMLST = GETLIST,
167 0164 2 | IOSB = IOSB);
168 0165 2 IF NOT .STATUS OR
169 0166 2 | NOT .IOSB [IOSSW_STATUS] THEN
170 0167 2 | Signal an error.

```

```

171 0168 2 NML$ERROR_1 (NMASC_STS_MPR);
172 0169 2
173 0170 2
174 0171 2 | Set up the link ID descriptor for the NICE response message.
175 0172 2 | The link ID consists of a byte of 0 followed by a word of the
176 0173 2 | link number.
177 0174 2
178 0175 2 STRDSC [DSC$W_LENGTH] = 3;
179 0176 2 STRDSC [DSC$A_POINTER] = NMLSAB_ENTITY_BUF;
180 0177 2 NML$AB_ENTITY_BUF<0,8> = 0;
181 0178 2 STRTFLG = FALSE;
182 0179 2
183 0180 2 | Get a list of links to disconnect from NETACP.
184 0181 2
185 0182 2 WHILE NML_GETLINKLIST (.STRTFLG, NMLSGQ_QIOBFDS, LINK_CNT, .NMLPID,
186 0183 2 .NODE_PST, .NODE_LEN, .NODE_ADR) DO
187 0184 3 BEGIN
188 0185 3 | STRTFLG = TRUE;
189 0186 3 PTR = .NMLSGQ_QIOBFDS [DSC$A_POINTER];
190 0187 3 WHILE (LINK_CNT = .LINK_CNT - 1) GEQ 0 DO
191 0188 4 BEGIN
192 0189 4 | NML$BLDP2 (0, ..PTR, -1, 0, NML$Q_P2BFDS, P2DSC);
193 0190 4
194 0191 4 | Tell NETACP to disconnect the link.
195 0192 4
196 0193 4 STATUS = NML$NETQIO (DISC_LINK_NFBDS, P2DSC, 0, 0);
197 0194 4
198 0195 4 | Build response message for disconnected link.
199 0196 4
200 0197 4 IF .STATUS THEN
201 0198 5 BEGIN
202 0199 5 | NMLSAB_MSGBLOCK [MSBSL_FLAGS] = 0;
203 0200 5 | NMLSAB_MSGBLOCK [MSBSB_CODE] = NMLS_STS_SUC;
204 0201 5 | NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] = TRUE;
205 0202 4 END;
206 0203 4 CHSMOVE (2, .PTR, .STRDSC [DSC$A_POINTER] + 1);
207 0204 4
208 0205 4 | If the link went away before it could be disconnected
209 0206 4 | don't build a response message for it.
210 0207 4
211 0208 4 IF .STATUS NEQ NMLS_STS_CMP THEN
212 0209 5 BEGIN
213 0210 5 | NMLSAB_MSGBLOCK [MSBSV_ENTD_FLD] = 1;
214 0211 5 | NMLSAB_MSGBLOCK [MSBSA_ENTITY] = STRDSC;
215 0212 5 | NML$BLD_REPLY (NMLSAB_MSGBLOCK, MSGSIZE);
216 0213 5 | NML$SEND (NMLSAB_SNDBUFFER, .MSGSIZE);
217 0214 4 END;
218 0215 4
219 0216 4 | Advance pointer to next link in the buffer.
220 0217 4
221 0218 4 PTR = .PTR + 4;
222 0219 4
223 0220 2 | END;
224 0221 2
225 0222 2 | If no links were disconnected, return an error message.
226 0223 2
227 0224 2 IF NOT .NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] THEN

```

NML\$DISCONNECT NML Disconnect parameter module  
V04-000 NML\$DISCKNOWN Disconnect known links

G 8  
16-Sep-1984 00:14:10  
14-Sep-1984 12:50:08  
VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 7  
(4)

```
228 0225 3 BEGIN
229 0226 3 NML$AB_MSGBLOCK [MSBSL_FLAGS] = MSBSM_DET_FLD; ! Detail flag
230 0227 3 NML$AB_MSGBLOCK [MSBSB_CODE] = NMASC_STS_CMP; ! Missing component status
231 0228 3 NML$AB_MSGBLOCK [MSBSW_DETAIL] = NMASC_SENT_LNK; ! Links
232 0229 3 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
233 0230 3 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
234 0231 2 END;
235 0232 1 END; ! of NML$DISC_KNOWN_LINKS
```

```
.TITLE NML$DISCONNECT NML Disconnect parameter module
.IDENT \V04-000\
.PSECT SPLITS,NOWRT,NOEXE,2
00000068 00000 P.AAA: .LONG 104
00000000 00004 .ADDRESS NMLST_P2BUFFER
00000014 00008 P.AAB: .LONG 20
00000000 0000C .ADDRESS U.1
.PSECT SOWNS,NOEXE,2
00000 NMLST_P2BUFFER:
00068 NML$AB_ENTITY_BUF: .BLKB 104
21 0007C ;_NFB .BLKB 20
0007D ;_U.1: .BYTE 33
0007E ;_U.1: .BYTE 0
0007F ;_U.1: .BYTE 8
08010012 00080 .BYTE 0
00000001 00084 .LONG 134283282
00000000 00088 .BYTE 1
00000000 00089 .BYTE 0
00000000 0008A .WORD 0
00000000 0008C .LONG 0
00000000 00090 NMLPID: .BLKB 4
0319 0004 00094 GETLIST: .WORD 4, 793
00000000 00098 .ADDRESS NMLPID
00000000 0009C .LONG 0
00CA0 IOSB: .BLKB 8
NML$Q_P2FDSC= P.AAA
U.2= P.AAB
.EXTRN NML$GB_EVTSRCTYP
.EXTRN NML$GQ_EVTSRCDS
.EXTRN NML$GW_EVTCLASS
.EXTRN NML$GB_EVTMSKTY
.EXTRN NML$GQ_EVTMSKDSC
.EXTRN NML$GW_EVTSNKADR
.EXTRN NML$GW_ACP_CHAN
.EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
.EXTRN NML$AB_QIOBUFFER
.EXTRN NML$GQ_QIOBFDS
.EXTRN NML$AB_EXEBUFFER
.EXTRN NML$GL_EXEDATPTR
```

```

.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVBFDS
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINFTAB
.EXTRN NML$AL_PERMINFTAB
.EXTRN NML$AW_PRMDES, NML$GB_CMD_VER
.EXTRN NML$GB_ENTITY_CODE
.EXTRN NML$GB_ENTITY_FORMAT
.EXTRN NML$GL_QUALIFIER_PST
.EXTRN NML$GB_QUALIFIER_FORMAT
.EXTRN NML$GB_FUNCTION
.EXTRN NML$GB_INFO, NML$GB_OPTIONS
.EXTRN NML$GL_PRMCODE, NML$GL_PRS_FLGS
.EXTRN NML$GL_NML_ENTITY
.EXTRN NML$GQ_NETNAMDSC
.EXTRN NML$GQ_RECBFDS
.EXTRN NML$GW_PRMDESCNT
.EXTRN NML$BLDP2, NML$BLD_REPLY
.EXTRN NML$GETEXEADR, NML$NETQIO
.EXTRN NML$SEND, NML$ERROR_1
.EXTRN SYSSGETJPI

```

.PSECT SCODE\$,NOWRT,2

OFFC 00000

5B 00000000G	00	9E 00002	.ENTRY NML\$DISCKNOWN, Save R2,R3,R4,R5,R6,R7,R8,- : 0112
5A 00000000G	00	9E 00009	R9,R10,R11
59 00000000G	00	9E 00010	MOVAB NML\$SEND, R11
58 00000000G	00	9E 00017	MOVAB NML\$AB_SNDBUFFER, R10
57 00000000	00	9E 0001E	MOVAB NML\$BLD_REPLY, R9
56 00000000G	00	9E 00025	MOVAB NML\$GL_PRS_FLGS, R8
5E	18	C2 0002C	IOSB, R7
	7E	7C 0002F	MOVAB NML\$AB_MSGBLOCK, R6
	57	DD 00031	SUBL2 #24, SP
	A7	9F 00033	CLRQ -(SP)
	7E	7C 00036	PUSHL R7
	7E	D4 00038	PUSHAB GETLIST
	F4		CLRQ -(SP)
00000000G	00	07 FB 0003A	CLRL -(SP)
	55	50 D0 00041	CALLS #7, SYSSGETJPI
	03	55 E9 00044	MOVL R0, STATUS
	0A	67 E8 00047	BLBC STATUS, 1\$
	7E	05 CE 0004A	BLBS IOSB, 2\$
00000000G	00	01 FB 0004D	MNEG L #5, -(SP)
08	AE	03 B0 00054	CALLS #1, NML\$ERROR_1
0C	AE	C8 A7 9E 00058	MOVW #3, STRDSC
	C8	A7 94 0005D	MOVAB NML\$AB_ENTITY_BUF, STRDSC+4
	C8	54 D4 00060	CLRB NML\$AB_ENTITY_BUF
			CLRL STRTFLG

0164

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0175

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0178

52	0C	AE	00 00062	MOVL	STRDSC+4, R2	0203
7E	0C	AC	7D 00066	MOVQ	NODE_LEN, -(SP)	0183
08	AC	DD	0006A	PUSHL	NODE_PST	
FO	A7	DD	0006D	PUSHL	NMLPID	0182
10	AE	9F	00070	PUSHAB	LINK_CNT	
00000000G	00	9F	00073	PUSHAB	NMLSG0 Q10BFDSC	
00000000V	00	54	DD 00079	PUSHL	STRFLG	
72	07	FB	0007B	CALLS	#7, NML_GETLINKLIST	
54	50	E9	00082	BLBC	R0, 78	
53	01	D0	00085	MOVL	#1, STRFLG	0185
00000000G	00	D0	00088	MOVL	NMLSG0 Q10BFDSC+4, PTR	0186
6E	D7	0008F	48:	DECL	LINK_CNT	0187
10	D3	19	00091	BLSS	38	
00000000	AE	9F	00093	PUSHAB	P2DSC	0189
00000000	00	9F	00096	PUSHAB	NMLSQ_P2BFDSC	
7E	7E	D4	0009C	CLRL	-(SP)	
01	CE	0009E		MNEG	#1, -(SP)	
63	DD	000A1		PUSHL	(PFR)	
00000000G	00	7E	000A3	CLRL	-(SP)	
06	FB	000A5		CALLS	#6, NML\$BLDP2	
7E	7C	000AC		CLRQ	-(SP)	0193
18	AE	9F	000AE	PUSHAB	P2DSC	
00000000	00	9F	000B1	PUSHAB	U.2	
00000000G	00	04	FB 000B7	CALLS	#4, NML\$NETQIO	
55	50	D0	000BE	MOVL	R0, STATUS	
09	55	E9	000C1	BLBC	STATUS, 58	0197
04	A6	66	D4 000C4	CLRL	NML\$AB_MSGBLOCK	0199
68	01	90	000C6	MOVB	#1, NML\$AB_MSGBLOCK+4	0200
01	A2	08	88 000CA	BISB2	#8, NML\$GL_PRS_FLGS	0201
FFFFFFF0	8F	63	B0 000CD	58:	(PFR), 1(R2)	0203
		55	D1 000D1	MOVW	STATUS, #-16	0208
		18	13 000D8	CMPL		
14	66	10	88 000DA	BEQL	68	
A6	08	AE	9E 000DD	BISB2	#16, NML\$AB_MSGBLOCK	0210
04	04	AE	9F 000E2	MOVAB	STRDSC, NML\$AB_MSGBLOCK+20	0211
		56	DD 000E5	PUSHL	MSGSIZE	0212
69	02	F8	000E7	CALLS	#2, NML\$BLD_REPLY	
		04	AE DD 000EA	PUSHL	MSGSIZE	0213
		5A	DD 000ED	PUSHL	R10	
68	02	F8	000EF	CALLS	#2, NML\$SEND	
53	04	C0	000F2	68:	ADDL2	0218
		98	11 000F5	BRB	#4, PTR	0187
18	68	03	E0 000F7	78:	BBS	0224
66	02	D0	000FB	MOVL	#2, NML\$AB_MSGBLOCK	0226
04	A6	08	8E 000FE	MNEG	#8, NML\$AB_MSGBLOCK+4	0227
08	A6	07	B0 00102	MOVW	#7, NML\$AB_MSGBLOCK+8	0228
		AE	9F 00106	PUSHL	MSGSIZE	0229
69	04	56	DD 00109	PUSHL	R6	
		02	F8 00108	CALLS	#2, NML\$BLD_REPLY	0230
		AE	DD 0010E	PUSHL	MSGSIZE	
68	04	5A	DD 00111	PUSHL	R10	
		02	F8 00113	CALLS	#2, NML\$SEND	
		04	00116	88:	RET	0232

: Routine Size: 279 bytes. Routine Base: \$CODES + 0000

```

: 237 0233 1 XSBTTL 'NML_GETLINKLIST' Get a list of links to disconnect'
: 238 0234 1 ROUTINE NML_GETLINKLIST ( GET_STARTED, LISDSC, ENTRY_COUNT, NMLPID,
: 239 0235 1 NODE_PST, NODE_LEN, NODE_ADR ) =
: 240 0236 1 ++
: 241 0237 1 FUNCTIONAL DESCRIPTION:
: 242 0238 1 This routine gets a bufferfull of currently active logical links
: 243 0239 1 from NETACP. This bufferfull will be either known links or known
: 244 0240 1 links on a specified node. The routine can be iteratively called
: 245 0241 1 to get more bufferfulls, until all links have been processed.
: 246 0242 1
: 247 0243 1
: 248 0244 1 INPUTS:
: 249 0245 1 GET_STARTED If false, this is the first call, so build
: 250 0246 1 a new P2 buffer and start at the beginning
: 251 0247 1 of the ACPs database.
: 252 0248 1 LISDSC Address at which to return descriptor address
: 253 0249 1 of the P4 buffer (which is full of links and
: 254 0250 1 their PIDs).
: 255 0251 1 ENTRY COUNT Count of links in the P4 buffer.
: 256 0252 1 NMLPID PID of NML process. This link must be disconnected
: 257 0253 1 last.
: 258 0254 1 NODE_PST Parameter Semantic Table (PST) entry of node
: 259 0255 1 (name or address) from which to disconnect links.
: 260 0256 1 NODE_LEN Length of disconnect node ID.
: 261 0257 1 NODE_ADR Address of disconnect node ID.
: 262 0258 1
: 263 0259 1 IMPLICIT INPUTS:
: 264 0260 1 NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] Set if links on a specified
: 265 0261 1 node are to be returned.
: 266 0262 1 NML$G0_ENTSTRDSC Descriptor for node name or number.
: 267 0263 1 --
: 268 0264 1
: 269 0265 2 BEGIN
: 270 0266 2
: 271 P 0267 2 SNFBDESC ( GET_KNOWN_LINKS, SHOW, NFB$M_MULT OR NFB$M_ERRUPD, LLI
: 272 P 0268 2 ,NFB$C_WILDCARD, ! Search key 1 = wildcard, oper1 = eq
: 273 P 0269 2 ,PID, NFB$C_OP_NEQ ! Search key 2 = NML's PID, oper2 = neq
: 274 P 0270 2 ,LLN ! Return link number
: 275 P 0271 2
: 276 P 0272 2
: 277 P 0273 2
: 278 P 0274 2 MAP
: 279 P 0275 2 NODE_PST: REF BBLOCK,
: 280 P 0276 2 GET_KNOWN_LINKS : DESCRIPTOR;
: 281 P 0277 2
: 282 P 0278 2 OWN
: 283 P 0279 2 P2_BUFFER : BBLOCK [NML$K_P2BUflen],
: 284 P 0280 2 P2DSC : DESCRIPTOR;
: 285 P 0281 2
: 286 P 0282 2 BIND
: 287 P 0283 2 P2_BUF_DSC = UPLIT ( NML$K_P2BUflen, P2_BUFFER ) : DESCRIPTOR;
: 288 P 0284 2
: 289 P 0285 2 LOCAL
: 290 P 0286 2 NFB : REF BBLOCK.
: 291 P 0287 2 SEARCH_KEY_LEN,
: 292 P 0288 2 SEARCH_KEY_VAL,
: 293 P 0289 2 P3,
```

```

0294      0290 2      STATUS
0295      0291 3      MSGSIZE;
0296
0297
0298      0294 2      : The first time this routine is called, GET_STARTED should be false.
0299      0295 2      : If so, build a P2 buffer with a search key with the node fd, or
0300      0296 2      : a wildcard search key. The search key tells NETACP which links
0301      0297 2      : to return.
0302      0298 2
0303      0299 3      IF NOT .GET_STARTED THEN
0304      0300 4      BEGIN
0305      0301 4      NFB = .GET_KNOWN_LINKS [DSCSA_POINTER];
0306      0302 4      IF .NMLSGL_PRS_FEGS [NMLSV_PRS_QUALIFIER] THEN
0307      0303 4
0308      0304 4      : The NICE command was DISCONNECT KNOWN LINKS WITH
0309      0305 4      NODE <node fd>.
0310      0306 4
0311      0307 4      BEGIN
0312      0308 4      SEARCH_KEY_LEN = .NODE_LEN;
0313      0309 4      NFB [NFBSL_SRCH_KEY] = .NODE_PST [PSTSL_NFBID];
0314      0310 4      IF .SEARCH_KEY_CEN EQL 0 THEN
0315      0311 4
0316      0312 4      : Set the search key up to be the node address.
0317      0313 4
0318      0314 4      BEGIN
0319      0315 4      SEARCH_KEY_VAL = .(NODE_ADR) <0,16>;
0320      0316 4      IF .SEARCH_KEY_VAL EQL 0 THEN
0321      0317 4          NM$GETEXEADR (SEARCH_KEY_VAL);
0322      0318 5      END
0323
0324      0319 4      ELSE
0325      0320 4
0326      0321 4      : Set the search key up to be the node name.
0327      0322 4
0328      0323 4      SEARCH_KEY_VAL = .NODE_ADR;
0329      0324 4
0330      0325 4      ELSE
0331      0326 4
0332      0327 4      : The NICE command was a DISCONNECT KNOWN LINKS.
0333      0328 4      Clear search key 1 and oper 1 in case a DISCONNECT
0334      0329 4      KNOWN LINKS WITH NODE <node fd> was done previously.
0335      0330 4
0336      0331 4      BEGIN
0337      0332 4      NFB [NFBSL_SRCH_KEY] = 0;
0338      0333 4      NFB [NFBSB_OPER] = 0;
0339      0334 4      SEARCH_KEY_LEN = -1;
0340      0335 4      SEARCH_KEY_VAL = 0;
0341      0336 4      END;
0342      0337 4      NML$BLDP2 (.SEARCH_KEY_LEN, .SEARCH_KEY_VAL, 0, .NMLPID,
0343      0338 4          P2_BUF_DSC, P2DSC);
0344      0339 4      END;
0345      0340 2      STATUS = NML$NETQIO ( GET_KNOWN_LINKS, P2DSC, P3, .LISDSC);
0346
0347      0341 2      IF NOT .STATUS AND (.STATUS NEQ NML$STS_CMP) THEN
0348      0342 2          BEGIN
0349      0343 2              NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
0350      0344 2              $SIGNAL_MSG (NML$AB_SRDBUFFER, .MSGSIZE);

```

NML\$DISCONNECT  
V04-000

NML Disconnect parameter module  
NML\_GETLINKLIST Get a list of links to discon

16-Sep-1984 00:14:10  
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1

Page 12  
(5)

351 0347 2 END;  
352 0348 3  
353 0349 2 .ENTRY\_COUNT = .(P2DSC [DSC\$A\_POINTER]);  
354 0350 2 RETURN.STATUS;  
355 0351 2  
356 0352 1 END: ! of NML\_GETLINKLIST

.PSECT SPLIT\$,NOWRT,NOEXE,2

0000001C 00010 P.AAC: .LONG 28  
00000000 00014 .ADDRESS U.3  
00000068 00018 P.AAD: .LONG 104  
00000000 0001C .ADDRESS P2\_BUFFER

.PSECT S0WNS,NOEXE,2

22 000AB ;\_NFB U.3:  
03 000A9 .BYTE 34  
08 000AA .BYTE 35  
00 000AB .BYTE 36  
00000001 000AC .LONG 1  
08010015 000B0 .LONG 134283285  
03 000B4 .BYTE 37  
00 000B5 .BYTE 38  
0000 000B6 .WORD 0  
08010012 000B8 .LONG 134283282  
00000000 000BC .LONG 0  
000C0 .BLKB 4  
000C4 P2\_BUFFER: .BLKB 104  
0012C P2DSC: .BLKB 8

U.4= P2\_BUF\_DSC= P.AAC  
P.AAD

.PSECT SCODE\$,NOWRT,2

001C 00000 NML\_GETLINKLIST:

54 00000000 00 9E 00002 .WORD Save R2,R3,R4 0234  
53 00000000 00 9F 00009 MOVAB GET\_KNOWN\_LINKS+4, R4  
5E 0C C2 00010 MOVAB P2DSC, R3  
50 04 AC E8 00013 SUBL2 #12, \$P  
50 64 D0 00017 BLBS GET\_STARTED, 4\$  
00 02 E1 0001A MOVL GET\_KNOWN\_LINKS+4, NFB  
51 14 AC 7D 00022 BBC #2, NMLSGC\_PRS\_FLGS, 2\$ 0301  
04 A0 0C A1 D0 00026 MOVO NODE\_PST, R1 0302  
52 D5 0002B MOVL 12(RT), 4(NFB) 0309  
11 12 0002D TSTL SEARCH\_KEY\_LEN 0310  
6E 1C BC 3C 0002F BNEQ 1\$ 0315  
1C 12 00033 MOVZWL @NODE\_ADR, SEARCH\_KEY\_VAL 0316  
5E DD 00035 BNEQ 3\$ 0317  
00000000G 00 01 FB 00037 PUSHL SP  
CALLS #1, NMLSGETEXEADR

NM  
VO

6E	1C	11	11	0003E	BRB	35	0310
		08	11	00044	MOVL	NODE_ADR, SEARCH_KEY_VAL	0323
	04	A0	D4	00046	BRB	35	0302
	03	A0	94	00049	CLRL	4(NFB)	0332
52		01	CE	0004C	CLRB	3(NFB)	0333
		6E	D4	0004F	MNEGL	#1, SEARCH_KEY_LEN	0334
		53	DD	00051	CLRL	SEARCH_KEY_VAL	0335
	04	A4	9F	00053	PUSHL	R3	0337
	10	AC	DD	00056	PUSHAB	P2 BUF_DSC	
	10	7E	D4	00059	PUSHL	NM\$PID	
	10	AE	DD	0005B	CLRL	-(SP)	
00000000G	00	52	DD	0005E	PUSHL	SEARCH_KEY_VAL	
		06	FB	00060	PUSHL	SEARCH_KEY_LEN	
	08	AC	DD	00067	CALLS	#6, NM\$BLDP2	
	08	AE	9F	0006A	PUSHL	LISDSC	0341
		53	DD	0006D	PUSHAB	P3	
00000000G	00	FC	A4	9F	PUSHL	R3	
		04	FB	00072	PUSHAB	GET_KNOWN_LINKS	
	52	50	DD	00079	CALLS	#4, NM\$NETQIO	
	2F	52	E8	0007C	MOVL	R0, STATUS	
FFFFFFF0	8F	52	D1	0007F	BLBS	STATUS, 55	0343
		26	13	00086	CMPL	STATUS, #16	
		AE	9F	00088	BEQL	55	
00000000G	00	08	00	9F	PUSHAB	MSGSIZE	0345
		02	FB	0008B	PUSHAB	NML\$AB MSGBLOCK	
00000000G	00	08	AE	DD	CALLS	#2, NM\$BLD_REPLY	0346
		00	9F	00098	PUSHL	MSGSIZE	
	01F90000	00000000G	8F	DD	PUSHAB	NML\$AB SNDBUFFER	
00000000G	00	01F90000	03	FB	PUSHL	#33095680	
	50	04	A3	DD	CALLS	#3, LIB\$SIGNAL	
OC	BC	60	DD	000A1	MOVL	P2DSC+4, R0	0349
	50	52	DD	000B2	MOVL	(R0), ENTRY_COUNT	
		04	000B6	04	MOVL	STATUS, R0	0350
					RET		0352

: Routine Size: 186 bytes, Routine Base: \$CODE\$ + 0117

```

: 358 0353 1 %SBTTL 'NML$DISCONNECT Disconnect single link'
: 359 0354 1 GLOBAL ROUTINE NML$DISCONNECT (ENTITY, LINK) : NOVALUE =
: 360 0355 1
: 361 0356 1 !++
: 362 0357 1 ! FUNCTIONAL DESCRIPTION:
: 363 0358 1
: 364 0359 1 This routine disconnects a single link with the specified node.
: 365 0360 1
: 366 0361 1 ! FORMAL PARAMETERS:
: 367 0362 1
: 368 0363 1 ENTITY NMLSC_LINKS - Not used.
: 369 0364 1 LINK Word-sized link address.
: 370 0365 1
: 371 0366 1 ! IMPLICIT INPUTS:
: 372 0367 1
: 373 0368 1 NML$GQ_ENTSTRDSC Contains the node ID.
: 374 0369 1
: 375 0370 1 !--
: 376 0371 1
: 377 0372 2 BEGIN
: 378 0373 2
: 379 0374 2 MAP
: 380 0375 2 LINK : WORD;
: 381 0376 2
: 382 P 0377 2 SNFBDSC ( DISC_LINK_NFBDESC, DELETE, , LLI
: 383 P 0378 2 ,LLN, ! Search key one = link number, oper1 = eql
: 384 P 0379 2 ;NFB$C_WILDCARD, ! Search key two = wildcard, oper2 = eql
: 385 0380 2 ;
: 386 0381 2
: 387 0382 2 LOCAL
: 388 0383 2 STATUS,
: 389 0384 2 P2DSC
: 390 0385 2 MSGSIZE;
: 391 0386 2
: 392 0387 2
: 393 0388 2 ! Build the P2 buffer to tell NETACP which link to disconnect. Then,
: 394 0389 2 perform the disconnect.
: 395 0390 2
: 396 0391 2 NML$BLDP2 ( 0, .LINK, -1, 0, NML$Q_P2BDSC, P2DSC);
: 397 0392 2 IF NML$NETQIO (DISC_LINK_NFBDESC, P2DSC, 0, 0) THEN
: 398 0393 3 BEGIN
: 399 0394 3 NML$AB_MSGBLOCK [MSBSL_FLAGS] = 0;
: 400 0395 3 NML$AB_MSGBLOCK [MSBSB_CODE] = NMASC_STS_SUC;
: 401 0396 2 END;
: 402 0397 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 403 0398 2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
: 404 0399 2
: 405 0400 1 END; ! of NML$DISCONNECT

```

.PSECT \$PLIT\$,NOWRT,NOEXE,2

00000014, 00020 P.AAE: .LONG 20  
00000000, 00024 .ADDRESS U.5

.PSECT \$OWN\$,NOEXE,2

21	00134	U.5:	U.5:	.BYTE	33
00	00135			.BYTE	0
08	00136			.BYTE	8
00	00137			.BYTE	0
08010012	00138			.LONG	134283282
00000001	0013C			.LONG	1
00	00140			.BYTE	0
00	00141			.BYTE	0
0000	00142			.WORD	0
00000000	00144			.LONG	0

U.6= P.AAE

## .PSECT \$CODES,NOWRT,2

52	00000000G	00	0004	00000	.ENTRY NML\$DISCONNECT, Save R2
5E		08	C2	00002	MOVAB NML\$AB_MSGBLOCK, R2
		5E	DD	0000C	SUBL2 #8, SP
	00000000	00	9F	0000E	PUSHL SP
		7E	D4	00014	PUSHAB NML\$Q_P2BFDSC
		7E	01	CE	CLRL -(SP)
		7E	08	3C	MNEGL #1, -(SP)
	00000000G	00	7E	D4	MOVZWL LINK, -(SP)
			06	FB	CLRL -(SP)
			7E	7C	CALLS #6, NMLSBLDP2
			AE	9F	CLRQ -(SP)
	00000000G	00	00	00028	PUSHAB P2DSC
		08	00000000	00	PUSHAB U.6
		00	04	FB	CALLS #4, NMLSNETQIO
		06	50	E9	BLBC R0, 1\$
			62	D4	CLRL NMLSAB_MSGBLOCK
04	A2	01	90	0003D	MOVB #1, NM\$AB_MSGBLOCK+4
		04	AE	9F	PUSHAB MSGSIZE
	00000000G	00	52	DD	PUSHL R2
			02	FB	CALLS #2, NMLSBLD_REPLY
			AE	DD	PUSHL MSGSIZE
	00000000G	00	04	0004D	PUSHAB NMLSAB_SNDBUFFER
		00000000G	00	00050	CALLS #2, NM\$SEND
			02	FB	RET
			04	00056	

: Routine Size: 94 bytes, Routine Base: \$CODES + 01D1

406	0401	1
407	0402	1 END
408	0403	1
409	0404	0 ELUDOM

! End of module

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

NML\$DISCONNECT NML Disconnect parameter module  
V04-000 NML\$DISCONNECT Disconnect single link

C 9  
16-Sep-1984 00:14:10  
14-Sep-1984 12:50:08  
VAX-11 BLiss-32 v4.0-742  
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 16  
(6)

Name	Bytes	Attributes					
\$OWNS	328	NOVEC, WRT, RD	,NOEXE,NOSHR, LCL,	REL.	CON,NOPIC,ALIGN(2)		
\$PLITS	40	NOVEC,NOWRT, RD	,NOEXE,NOSHR, LCL,	REL.	CON,NOPIC,ALIGN(2)		
\$CODES	559	NOVEC,NOWRT, RD	, EXE,NOSHR, LCL,	REL.	CON,NOPIC,ALIGN(2)		

#### Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
-\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	43	12	27	00:00.1
-\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	4	0	47	00:00.2
-\$255\$DUA28:[SHRLIB]NET.L32;1	1279	12	0	63	00:00.3
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:03.3

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NMLDISC/OBJ=OBJ\$:NMLDISC MSRC\$:NMLDISC/UPDATE=(ENH\$:NMLDISC)

Size: 559 code + 368 data bytes  
Run Time: 00:15.5  
Elapsed Time: 00:42.0  
Lines/CPU Min: 1561  
Lexemes/CPU-Min: 14822  
Memory Used: 133 pages  
Compilation Complete

0283 AH-BT13A-SE  
VAX/VMS V4.0

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